SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHMQ0

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHMQ0	P5199-01	X			
MBHMQ1	P5199-02	X			
MBHMQ2	P5199-03	X			
MBHMQ3	P5199-04	X			
MBHMQ3D	P5199-05	X			
MBHMQ3S	P5199-06	X			
MBHMQ4	P5199-07	X			
MBHMQ5	P5199-08	X			
MBHMQ6	P5199-09	X			
MBHMT1	P5199-10	X			
MBHMT2	P5199-11	X			
MBHMT3	P5199-12	X			

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

68HERH20D0011 SDG # MBHMQ0

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-120524-112527-0053

DateShipped: 12/5/2024
CarrierName: FedEx
AirbillNo: 7705 5865 8740

Case #: 51879
Cooler #: 2

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P179-SB-08-Z00-02	MBHMQ0	Soil/		ICP-AES(35)	5182 (Wet ice < 6 C) (1)	P179-SB-08	11/22/2024 10:20	
P179-SB-08-Z02-06	MBHMQ1	Soil/		ICP-AES(35)	5183 (Wet ice < 6 C) (1)	P179-SB-08	11/22/2024 10:20	
P179-SB-08-Z06-12	MBHMQ2	Soil/		ICP-AES(35)	5184 (Wet ice < 6 C) (1)	P179-SB-08	11/22/2024 10:20	
P179-SB-08-Z12-18	MBHMQ3	Soil/		ICP-AES(35)	5185 (Wet ice < 6 C) (1)	P179-SB-08	11/22/2024 10:20	
P179-SB-08-Z18-24	MBHMQ4	Soil/		ICP-AES(35)	5186 (Wet ice < 6 C) (1)	P179-SB-08	11/22/2024 10:20	
P179-SB-08-Z24-30	MBHMQ5	Soil/		ICP-AES(35)	5187 (Wet ice < 6 C) (1)	P179-SB-08	11/22/2024 10:20	
P179-SB-08-Z30-36	MBHMQ6	Soil/		ICP-AES(35)	5188 (Wet ice < 6 C) (1)	P179-SB-08	11/22/2024 10:20	
P179-SB-04-Z00-02	MBHMT1	Soil/		ICP-AES(35)	5104 (Wet ice < 6 C) (1)	P179-SB-04	11/22/2024 09:50	
P179-SB-04-Z02-06	MBHMT2	Soil/		ICP-AES(35)	5105 (Wet ice < 6 C) (1)	P179-SB-04	11/22/2024 09:50	
P179-SB-04-Z06-12	MBHMT3	Soil/		ICP-AES(35)	5106 (Wet ice < 6 C) (1)	P179-SB-04	11/22/2024 09:50	

Sample(s) to be used for Lab QC: P179-SB-08-Z12-18 Tag 5185 - Special Instructions: Samples MBHMQ3 and MBHMX3 are MS/MSDs. Sample MBHMT2 had limited sample mass.	**Shipment for Case Complete? N** **Samples Transferred From Chain of Custody #**
Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	[signature] WSP	12/06/24 16:40	[signature]	12/7/24 9:55	2.5' IRem #7
					Temp blank Present
			N/A [signature] 12/06/24		Custody Seal Intact

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Jessenova Pena		Log-in Date 12/7/2024
Received By (Signature)		
Case Number 51879	SDG No. MBHMQ0	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	770558658740 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.5 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	12/07/2024
12.Time Received	09:55

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHMQ0	N/A	5182	P5199-01	Intact
2	MBHMQ1	N/A	5183	P5199-02	Intact
3	MBHMQ2	N/A	5184	P5199-03	Intact
4	MBHMQ3	N/A	5185	P5199-04	Intact
5	MBHMQ3D	N/A	5185	P5199-05	Intact
6	MBHMQ3S	N/A	5185	P5199-06	Intact
7	MBHMQ4	N/A	5186	P5199-07	Intact
8	MBHMQ5	N/A	5187	P5199-08	Intact
9	MBHMQ6	N/A	5188	P5199-09	Intact
10	MBHMT1	N/A	5104	P5199-10	Intact
11	MBHMT2	N/A	5105	P5199-11	Intact
12	MBHMT3	N/A	5106	P5199-12	Intact
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 12/9/24	Logbook Page No. N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**Alliance Technical Group, LLC**		
LAB CODE	**ACE**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**51879**	SDG NO.	**MBHMQ0**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	2	✓	
3 . Sample Log-In Sheet (DC-1)	3	3	✓	
4 . CSF Inventory Sheet (DC-2)	4	6	✓	
5 . SDG Narrative	7	9	✓	
6 . Communication Logs	NA	NA	✓	
7 . Percent Solids Log	10	11	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	12	21	✓	
9 . Instrument raw data by instrument in analysis order	22	282	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	283	421	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	422	423	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	424	430	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
15 . Raw GPC Data	NA	NA	✓	
16 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
18 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	NA	NA	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
27. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
28. Standard and Reagent Preparation Logs	NA	NA	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	431	431	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	432	433	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	434	434	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by:
(CLP Lab)

(Signature)	Nimisha Pandya, Document Control Officer (Print Name & Title)	(Date)

Audited by:
(EPA)

(Signature)	(Print Name & Title)	(Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MBHMQ0
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5199

A. Number of Samples and Date of Receipt

10 Soil sample were delivered to the laboratory intact on 12/07/2024.

B. Parameters

Test requested for Metals CLP FULL = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.5^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

E. Corrective Action taken for above:

Resolution: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.

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G. Calculation:

Calculation for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MBHMQ0 For Antimony:

If C = 0.0309128 ppm
Vf = 100 ml
W = 1.40 g
S = 0.742(74.2/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0309128 \times \frac{100}{1.40 \times 0.742} \times 1$$

= 2.9758 mg/kg

= 3.0 mg/kg (Reported Result with Signification

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Antimony, Arsenic, Selenium, Silver, Thallium. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Aluminum, Barium, Beryllium, Calcium, Chromium, Copper, Iron, Magnesium, Manganese, Zinc.

Chemical or physical interference effect was suspected and the data for all affected analytes in the sample received and associated with this serial dilution were flagged.

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Mountainside, NJ 07092

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/12/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 12:15
In Date: 12/11/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:25
Out Date: 12/12/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133877

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P5199-01	MBHMQ0	1	1.15	8.61	9.76	7.54	74.2	
P5199-02	MBHMQ1	2	1.15	8.70	9.85	7.96	78.3	
P5199-03	MBHMQ2	3	1.12	8.60	9.72	8.6	87.0	
P5199-04	MBHMQ3	4	1.17	8.60	9.77	8.35	83.5	
P5199-05	MBHMQ3D	5	1.17	8.60	9.77	8.35	83.5	
P5199-06	MBHMQ3S	6	1.17	8.60	9.77	8.35	83.5	
P5199-07	MBHMQ4	7	1.16	8.50	9.66	8.47	86.0	
P5199-08	MBHMQ5	8	1.15	8.74	9.89	8.98	89.6	
P5199-09	MBHMQ6	9	1.18	8.45	9.63	8.76	89.7	
P5199-10	MBHMT1	10	1.16	8.40	9.56	6.43	62.7	
P5199-11	MBHMT2	11	1.15	8.44	9.59	6.74	66.2	
P5199-12	MBHMT3	12	1.16	8.58	9.74	7.41	72.8	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VA 133877

WorkList Name : %1-p5199 **WorkList ID :** 186217 **Department :** Wet-Chemistry **Date :** 12-11-2024 09:13:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5199-01	MBHMQ0	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/22/2024	Chemtech -SO
P5199-02	MBHMQ1	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/22/2024	Chemtech -SO
P5199-03	MBHMQ2	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/22/2024	Chemtech -SO
P5199-04	MBHMQ3	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/22/2024	Chemtech -SO
P5199-05	MBHMQ3D	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/22/2024	Chemtech -SO
P5199-06	MBHMQ3S	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/22/2024	Chemtech -SO
P5199-07	MBHMQ4	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/22/2024	Chemtech -SO
P5199-08	MBHMQ5	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/22/2024	Chemtech -SO
P5199-09	MBHMQ6	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/22/2024	Chemtech -SO
P5199-10	MBHMT1	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/22/2024	Chemtech -SO
P5199-11	MBHMT2	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/22/2024	Chemtech -SO
P5199-12	MBHMT3	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/22/2024	Chemtech -SO

Date/Time 12-11-24 11:40

Raw Sample Received by: JP (coC)

Raw Sample Relinquished by: RM SM

Date/Time 12-11-24 12:20

Raw Sample Received by: RM SM

Raw Sample Relinquished by: JP (coC)